



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT &amp; TRADEMARK OFFICE

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**LIST OF REFERENCES CITED BY APPLICANT**

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DOCKET NO.: 2427/1G685US1 SERIAL NO: 09/801,302  
APPLICANT: Patrick F. KELLY et al. FILING DATE: March 7, 2001  
CONFIRMATION NO:

**U.S. PATENT DOCUMENTS**

<u>*EXAMINER</u> <u>INITIALS</u>	<u>DOCUMENT</u> <u>NUMBER</u>	<u>DATE</u>	<u>NAME</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>FILING DATE</u>
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**FOREIGN PATENT DOCUMENTS**

<u>*EXAMINER</u> <u>INITIALS</u>	<u>DOCUMENT</u> <u>NUMBER</u>	<u>DATE</u>	<u>COUNTRY</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>TRANSLATION</u> <u>YES</u> <u>NO</u>
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CQ  
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1. WO 9932646	7/1/1999	PCT	C12N	15/86
2. WO 9604934	2/22/1996	PCT	A61K	48/00
3. WO 99/15684	4/1/1999	PCT	C12N	15/86

**OTHER REFERENCES****(INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.)**\*EXAMINER  
INITIALS

CQ

4. KELLY, P. et al.: "Efficient transduction of CD34+ and CD38- human haematopoietic cells with SCID repopulating cells (SRC) potential with an oncoretroviral virus (RD114) envelope protein" BLOOD, vol. 94, no.10 Part 1 Supl.1, November 15, 1999, page 611a; Abs. 2718, XP002190046.

CQ

5. HANENBERG, H et al.: "OPTIMIZATION OF FIBRONECTIN-ASSISTED RETROVIRAL GENE TRANSFER INTO HUMAN CD34+ HEMATOPOIETIC CELLS" HUMAN GENE THERAPY, vol. 8, no. 18, December 10, 1997, pages 2193-2206, XP000867308.

CQ

6. KELLY, P. et al.: "Highly efficient gene transfer into cord blood nonobese diabetic/SCID combined immunodeficiency repopulating cells by oncoretroviral vector particles pseudotyped with the feline endogenous retrovirus (RD114) envelope protein" BLOOD, vol. 96, no.4, August 15, 2000, pages 1206-1214, XP002190047.

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7. HANAWA, H. et al.: "Improved transduction of human primitive hematopoietic cells with a lentiviral vector pseudotyped with the envelope protein of endogenous feline leukemia virus (RD114)" BLOOD, vol. 96, no. 11 Part.1, November 16, 2000, page 524a, XP002190048.

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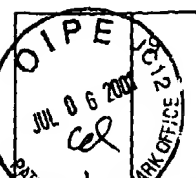


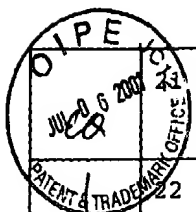
DATE CONSIDERED:

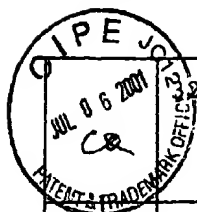
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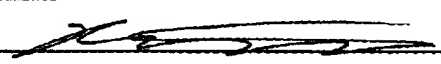
Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Atty. Docket No. <b>2427/1G685US1</b>		Serial No. <b>09/801,302</b>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant <b>Patrick F. KELLY ET AL.</b>			
				Filing Date <b>March 7, 2001</b>		Group <b>N/A</b>	
U.S. PATENT DOCUMENT							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation ----- Yes                      No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
CQ	1	<i>Envelope-Binding Domain In The Cationic Amino Acid Transporter Determines The Host Range Of Ecotropic Murine Retroviruses</i> - Lorraine M. Albritton et al., Journal of Virology, Apr. 1993 p2091-2096 Vol. 67, No. 4; © 1993 American Society of Microbiology					
	2	<i>Improved Transfer of the Leukocyte Integrin CD18 Subunit Into Hematopoietic Cell Lines by Using Retroviral Vectors Having a Gibbon Ape Leukemia Virus Envelope</i> - Thomas R. Bauer Jr. et al., Blood, Vol. 86 No.6, September 15, 1995; pp 2379-2387; © 1995 The American Society of Hematology					
	3	<i>Restoration of Lymphocyte Function In Janus Kinase 3-Deficient Mice By Retroviral-Mediated Gene Transfer</i> - Kevin D. Bunting et al., Nature Medicine, Vol. 4, Number 1, January 1998					
	4	<i>Lymphocytes As Cellular Vehicles For Gene Therapy In Mouse And Man</i> - Kenneth Culver et al., Pro. Natl. Acad. Sci. USA, Vol. 88, No. 8, pp. 3155-3159, April 15 1991 Medical Sciences					
	5	<i>Efficient Transduction of Human Lymphocytes and CD34<sup>+</sup> Cells Via Human Immunodeficiency Virus-Based Gene Transfer Vectors</i> - Janet Douglas et al., Human Gene Therapy Vol. 10, No. 6, pp935-945; April 10, 1999					
	6	<i>Retrovirally Marked CD34-Enriched Peripheral Blood and Bone Marrow Cells Contribute To Long-Term Engraftment After Autologous Transplantation</i> - Cynthia E. Dunbar et al., Blood, Vol. 85, No. 11, pp 3048-3057, June 1, 1995					
	7	<i>Human Cord Blood CD34<sup>+</sup>CD38<sup>-</sup> Cell Transduction Via Lentivirus-Based Gene Transfer Vectors</i> - Jay T. Evans et al., Human Gene Therapy, Vol. 10, No. 9, pp1479-1489, June 10, 1999					
	8	<i>Extended Long-Term Culture Reveals A Highly Quiescent And Primitive Human Hematopoietic Progenitor Population</i> - Quin-Lin Hao et al., Blood, Vol. 88, No. 9, pp3306-3313, November 1, 1996					

	<p><i>Optimization Of Retroviral-Mediated Gene Transfer To Human NOD/SCID Mouse Repopulating Cord Blood Cells Through A Systematic Analysis Of Protocol Variables</i> - Burkhard Hennemann et al., Experimental Hematology Vol. 27, pp. 817-825, January 1999, ©1999 International Society For Experimental Hematology</p>
10	<p><i>Human Gene Transfer: Characterization of Human Tumor-Infiltrating Lymphocytes As Vehicles For Retroviral-Mediated Gene Transfer In Man</i> - Attan Kasid et al., Proc. Natl. Acad. Sci. USA, Vol. 87, No. 1, pp. 473-477, January 1990</p>
11	<p><i>Efficient Transduction By An Amphotropic Retrovirus Vector Is Dependent On High-Level Expression Of The Cell Surface Virus Receptor</i> - Peter Kurre et al., Journal of Virology, Vol. 73, No. 1, pp. 495-500, January 1999</p>
12	<p><i>Retrovirus-Mediated Gene Transfer Into Human CD34<sup>+</sup> 38<sup>LOW</sup> Primitive Cells Capable Of Reconstituting Long-Term Cultures In Vitro and Nonobese Diabetic-Severe Combined Immunodeficiency Mice In Vivo</i> - Aliette Marandin et al., Human Gene Therapy, Vol. 9, No. 10, pp. 1497-1511, July 1, 1998</p>
13	<p><i>Construction and Properties of Retrovirus Packaging Cells Based On Gibbon Ape Leukemia Virus</i> - A. Dusty Miller et al., Journal of Virology, Vol. 65, No. 5, pp. 2220-2224, May 1991, ©1991, American Society For Microbiology</p>
14	<p><i>Gene Transfer By Retrovirus Vectors Occurs Only In Cells That Are Actively Replicating At The Time Of Infection</i> - Daniel G. Miller et al., Molecular and Cellular Biology, Vol. 10, No. pp. 4239-4242, August 1990, ©1990 American Society For Microbiology</p>
15	<p><i>Redesign of Retrovirus Packaging Cell Lines To Avoid Recombination Leading To Helper Virus Production</i> - A. Dusty Miller et al., Molecular and Cellular Biology, Vol. 6, No. 8, pp. 2895-2902, August 1986, ©1986 American Society For Microbiology</p>
16	<p><i>The Level Of mRNA Encoding The Amphotropic Retrovirus Receptor In Mouse and Human Hematopoietic Stem Cells Is Low And Correlates With The Efficiency Of Retrovirus Transduction</i>, Donald Orlic et al., Proc. Natl. Acad. Sci. USA, Vol. 93, No. 20, pp. 11097-11102, October 1, 1996</p>
17	<p><i>Comparison Of Efficiency Of Infection Of Human Gene Therapy Target Cell Via Four Different Retroviral Receptors</i> - Colin D. Porter et al., Human Gene Therapy, Vol. 7, No. 8, pp. 913-919, May 20, 1996</p>
18	<p><i>No Discrepancy Between In Vivo Gene Marking Efficiency Assessed In Peripheral Blood Populations Compared With Bone Marrow Progenitors of CD34<sup>+</sup> Cells</i> - Stephanie E. Sellers, Vol. 10, No. 4, pp. 633-640, March 1, 1999</p>
19	<p><i>Interaction of Vesicular Stomatitis Virus-G Pseudotyped Retrovirus With CD34<sup>+</sup> And CD34<sup>+</sup>CD38<sup>+</sup> Hematopoietic Progenitor Cells</i> - AM Sinclair et al., Gene Therapy, Vol. 4, pp. 918-927 (1997) ©1997 Stockton Press</p>
20	<p><i>Receptor Interference Groups Of 20 Retroviruses Plating On Human Cells</i> - Maja A. Sommerfelt et al., Virology, Vol. 176, No. 1, May 1990, ©1990 By Academic Press, Inc.</p>

	21	<i>Circulating T And B Lymphocytes Of The Mouse I. Migratory Properties</i> - J. Sprent, Cellular Immunology, Vol. 6, No. 3, March 1973, ©1973 By Academic Press, Inc.
	22	<i>Differences In The Migration Of B and T Lymphocytes: Organ-Selective Localization In Vivo And The Role Of Lymphocyte-Endothelial Cell Recognition</i> - Susan K. Stevens et al., The Journal of Immunology, Vol. 128, No. 2 pp. 844-851, February 1982, ©1982 The American Association of Immunologies
	23	<i>Ex Vivo Expansion Of Genetically Marked Rhesus Peripheral Blood Progenitor Cells Results In Diminished Long-Term Repopulating Ability</i> - J.F. Tisdale, Blood, Vol. 92, No. 4, pp. 1131-1141, August 15, 1998
	24	<i>In Vivo Selection Of Retrovirally Transduced Hematopoietic Stem Cells</i> - James A. Allay et al., Nature Medicine, Vol. 4, No. 10, pp.1136-1143, October 1998
	25	<i>Use Of The Green Fluorescent Protein As A Marker To Identify And Track Genetically Modified Hematopoietic Cells</i> - Derek A. Persons et al., Nature Medicine, Vol. 4, No. 10, pp. 1201-1205, October 1998
	26	<i>Efficient Retroviral-Mediated Gene Transfer To Human Cord Blood Stem Cells With In Vivo Repopulating Potential</i> - E. Conneally et al., Blood, Vol. 91, No. 9, pp. 3487-3493, May 1, 1998
	27	<i>Direct Evidence For Multiple Self-Renewal Divisions Of Human In Vivo Repopulating Hematopoietic Cells In Short-Term Culture</i> - H. Glimm et al., Blood, Vol. 94, No. 7, pp. 2161-2168, October 1, 1999, The Journal of The American Society of Hematology
	28	<i>Improved Gene Transfer Into Baboon Marrow Repopulating Cells Using Recombinant Human Fibronectin Fragment CH-296 In Combination With Interleukin-6, Stem Cell Factor, FLT-3 Ligand, And Megakaryocyte Growth And Development Factor</i> - Hans-Peter Kiem et al., Blood, Vol. 92, No. 6, pp. 1878-1886, September 15, 1998
	29	<i>One-Day Ex Vivo Culture Allows Effective Gene Transfer Into Human Nonobese Diabetic/Severe Combined Immune-Deficient Repopulating Cells Using High-Titer Vesicular Stomatitis Virus G. Protein Pseudotyped Retrovirus</i> - Vivienne I. Rebel et al., Blood, Vol 93, No. 7, pp. 2217-2224, April 1, 1999, ©1999 The American Society of Hematology
	30	<i>High Efficiency Gene Transfer To Human Hematopoietic SCID-Repopulating Cells Under Serum-Free Conditions</i> - Andrea J. Schilz et al., Blood, Vol.9, pp. 3163-3171; November 1, 1998, ©1998 The American Society of Hematology
✓	31	<i>Highly Efficient Transduction Of The Green Fluorescent Protein Gene In Human Umbilical Cord Blood Stem Cells Capable Of Cobblestone Formation In Long-Term Cultures And Multilineage Engraftment Of Immunodeficient Mice</i> - Paul B. van Hennik et al., Blood, Vol. 92, No. 11, pp. 4013-4022, December 1, 1998, ©1998 The American Society of Hematology




		<i>Retroviral Marking Of Canine Bone Marrow: Long Term, High-Level Expression Of Human Interleukin-2 Receptor Common Gamma Chain In Canine Lymphocytes</i> - Todd Whitwam, Blood, Vol. 92, No. 5, pp. 1565-1575, September 1, 1998
	33	<i>Quantitative Analysis Reveals Expansion of Human Hematopoietic Repopulating Cells After Short-Term Ex Vivo Culture</i> - Mickie Bhatia et al., J. Exp. Med., Vol. 186, No. 4, pp. 619-624, August 8, 1997,
	34	<i>Stable Transduction of Quiescent CD34<sup>+</sup>CD38<sup>-</sup> Human Hematopoietic Cells By HIV-1-Based Lentiviral Vectors</i> - Scott S. Case et al., Proc. Natl. Acad. Sci. USA, Vol. 96, pp. 2988-2993, March 1999
	35	<i>Transduction Of Human CD34<sup>+</sup> Cells That Mediate Long-Term Engraftment Of NOD/SCID Mice By HIV Vectors</i> - Hiroyuki Miyoshi et al., Science Magazine, Vol. 283, pp. 682-686, January 29, 1999
✓	36	<i>High Levels Of Lymphoid Expression Of Enhanced Green Fluorescent Protein In Nonhuman Primates Transplanted With Cytokine-Mobilized Peripheral Blood CD34<sup>+</sup> Cell</i> - Robert E. Donahue et al., Blood, Vol. 95, No. 2, pp. 445-452, January 15, 2000 ©2000 The American Society of Hermatology
Examiner 		Date Considered 2/6/02
<p>*Examiner: Initials if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>		

AUG 10 2001

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Sheet 1 of 1

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JUL 24 2001				Filing Date <b>March 7, 2001</b>		Group <b>1645</b>	
U.S. PATENT DOCUMENT							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
CA	1	4,861,719	8/29/89	MILLER	435	236	4/25/86
	2	5,667,998	9/16/97	DOUGHERTY ET AL.	435	172.3	6/7/95
	3	5,910,434	6/8/99	RIGG ET AL.	435	172.3	12/15/95
	4	5,952,225	9/14/99	PENSIERO ET AL.	435	352	8/17/95
V	5	6,017,761	1/25/00	RIGG ET AL.	435	455	12/13/96
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
	6	PCT/GB96/02061	8/23/96	PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
CA	7	<i>An Improved Method For Generating Retroviral Producer Clones For Vectors Lacking A Selectable Marker Gene</i> , Derek A. Persons et al., Blood Cells, Molecules & Diseases (1998) Vol. 24, Pgs. 167-182					
	8	<i>High-Titer Packaging Celis Producing Recombinant Retroviruses Resistant to Human Serum</i> , Cosset, Francis-Loïc Cosset et al., Journal of Virology, Dec. 1995, Vol. 69, No. 12, Pgs. 7430-7436					
	9	<i>A Stable Human-Derived Packaging Cell Line For Production Of High Titer Retrovirus/- Vesicular Stomatitis Virus G Pseudotypes</i> , Daniel S. Ory, Proc. Natl. Acad. Sci. USA, October 1996, Vol. 93, Pgs. 11400-11406					
V	10	<i>The RD114/Simian Type D. Retrovirus Receptor Is A Neutral Amino Acid Transporter</i> , John E. J. Rasko et al., Pro. Natl. Acad. Sci, USA, March 1999, Vol. 96, Pgs. 2129-2134					
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